

# Woodward-Clyde Consultants

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## FAX TRANSMISSION COVER SHEET

Date: 4-4-95 Project Name: NL/Tara corp  
To: Brad Bradley Project No: C3M11Q  
At: USEPA Region V Task: 31  
Fax: (312) 886-4071  
Sender: David Pate  
Subject: Telephone Conversation Notes with POTW

\*\*\*\*\*  
You should receive 8 page(s), including this cover sheet. If you do not receive all the pages, or if you receive this fax in error, please call (314) 429-0100.  
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Attached are recent phone memos on  
conversations with POTW. Also attached is a  
copy of the Sewer Use Ordinance (#3819)  
that they provided to us.

Call if you need more backup.



Date: <u>11/30/93</u>	TELEPHONE MEMORANDUM	Project No.: <u>C3M11Q</u>
Time: <u>1:30</u> AM/PM		
(To) (From): <u>Terry Kellahan / C.F. Parente</u>		Routing      File <u>08</u>
Company/Location: <u>G.C. Regional Sewer System</u>		
Phone No.: <u>618-452-6230</u>		
Recorded by: <u>C.F. Parente</u>		
Project: <u>NETSS</u>		

NL/Tamrap Superfund Site project determining remedial methods ~~start~~ was wondering if the sewer district had any local limits or pretreatment requirements as discussed in the IL Regs Part 310.

Discharge limits / pretreatment requirements they do have. He does know if they have volume limits.

He will send us the local limits.

Prior to disposal we would have to get approval from the Superintendent → Terry Kellahan

Granite City Sewer Use Ordinance 3819

12/15/93

Date: <del>12/15/93</del>	TELEPHONE MEMORANDUM	Project No.: C3M11Q
Time: 2:45 AM		
(To) (From): Ron Parente		Routing _____ _____ _____ _____
Company/Location: G.C. Regional Sewer System		
Phone No.: 618-452-6230		
Recorded by: C. Pavelka		
Project: NCTSS		
		File

Unit Cost for an industrial/commercial type industry  
(Superfund Site) = leachate & groundwater to dispose  
into the local POTW

~~Small lot~~

Based on  $\approx 100-150$  gal/min pumping groundwater  
Rates

Surcharge Rates

+ Volume Rates 200,000 gal/day For groundwater discharge  
0.2 MGPD  $\times 7.48 \frac{\text{gal}}{\text{ft}^3} \times \frac{1 \text{ acre-ft}}{43,560 \text{ gal}} \times \frac{91 \text{ days}}{\text{yr}} = 137 \text{ acre-ft}$

1st	2100 ft <sup>3</sup>	\$ .86 / 100 cu. ft	/ per quarter
next 2nd	36,900 ft <sup>3</sup>	.86 / 100 cu. ft	
next 3rd	36,000 "	.83 / 100 cu. ft	
next 4th	81,000 "	.80 / 100 cu. ft	
next 5th	81,000 "	.76 / 100 ft	
next 6th	162,000	.73 / 100 ft	
next 7th	1,098,000	.66 / 100 ft	
next 8th	1,500,000	.59 / 100 ft	

over  $\rightarrow$

Date: <u>4/14/94</u> Time: <u>10:45</u> <u>AM</u> /PM	<b>TELEPHONE MEMORANDUM</b>	Project No.: <u>C3M11Q</u>
(To) (From): <u>Ron Pavente / Terry Kellahan</u> Company/Location: <u>G.C. Regional Sewer District</u> Phone No.: <u>618-452-6230</u> Recorded by: <u>C. Pawelka</u> Project: <u>NTSS</u>		Routing _____ _____ _____ _____ File

Had obtained surcharge ~~rate~~ rates from you previously.

A question came up if the local treatment plant could handle this volume.

Yes, Plant capacity could handle 200,000 gal/day.

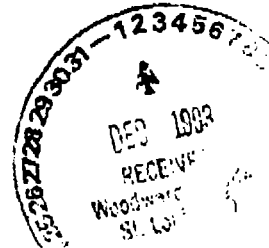
↔ Don't know about access to the sewer system.  
It would be dependent on if you were located near a trunk line.

Contact G.C. Engineering =

Call Brett Henke - I no longer works there he is now working in Collinsville.

They do not have a public works director or engineer.  
All work is contracted out to Tanager associates.

*Granite Sewer Use Ordinance  
No. 3819*



**2.1 General Discharge Prohibitions**

No user shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater that will interfere with the operation or performance of the POTW. These general prohibitions apply to all such users of a POTW whether or not the user is subject to National Categorical Standards or any other National, State, or local Pretreatment Standards or Requirements. A user may not contribute the following substances to any POTW:

a) Any liquids, solids, or gases that by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the POTW or to the operation of the POTW. At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than five percent (5%) nor any single reading over ten percent (10%) of the Lower Explosive Limit (LEL) of the meter. Prohibited materials include, but are not limited to the following: gasoline, kerosene, hexane, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, sulfides, and any other substance that the City, State, or EPA has identified to the user as a fire hazard or a hazard to the system.

b) Solid or viscous substances that may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities such as, but not limited to the following: grease, garbage with particles greater than one half inch (1/2") in any dimension, animal guts or tissues, paunch manure, bones, hair, hides, or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, foundry sand, core sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, waste paper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud, glass grinding, or polishing wastes.

c) Any wastewater causing corrosive damage or hazard to structures, equipment, or personnel of the wastewater facilities, but in no case discharges having a pH lower than 5.0 or greater than 10.0 at any time.

d) Any substances that cause an excessive chlorine demand in the POTW effluent.

e) Any wastewater containing toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, to injure or interfere with any wastewater treatment process, constitute a hazard to humans or animals, create a toxic effect

in the receiving waters of the POTW, or to exceed the limitation set forth in a Categorical Pretreatment Standard. A toxic pollutant shall include but not be limited to any pollutant identified to Section 307(a) of the Act.

f) Any noxious or malodorous liquids, gases, or solids that either singly or by interaction with other wastes are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewers for maintenance and repair.

g) Any substance that may cause the POTW's effluent or any other product of the POTW such as residues, sludges, or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case shall a substance discharged to the POTW cause the POTW to be in non-compliance with sludge use or disposal criteria, guidelines, or regulations developed under Section 405 of the Act; any criteria, guidelines, or regulations affecting sludge use or disposal developed pursuant to the Resource Conservation and Recovery Act, the Clean Air Act, the Toxic Substances Control Act, or State criteria applicable to the sludge management method being used.

h) Any substance that will cause the POTW to violate its NPDES Permit or the receiving water quality standards.

i) Any wastewater with objectionable color not removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions.

j) Any wastewater containing heat in amounts that will accelerate the biodegradation of wastes, causing the formation of excessive amounts of hydrogen sulfide in the wastewater sewer or inhibit biological activity in the wastewater treatment facilities, but in no case shall the discharge of heat cause the temperature of the influent to the treatment facilities to exceed 40°C (104°F).

k) Any pollutants, including oxygen-demanding pollutants (BOD, etc.) released at a flow rate and/or pollutant concentration that a user knows or has reason to know will cause interference to the POTW.

l) Any wastewater containing more than 200 mg/l of fats, oils, or grease (FOG).

m) Any garbage that has not been properly shredded, i.e., no particle greater than one-half inch in any dimension.

n) Any waters or wastes containing suspended solids of such character and quality that unusual attention or expense is required to handle such materials at the POTW.

o) Any wastewater containing any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the Superintendent in compliance with applicable State or Federal regulations.

p) Any wastewater that causes a hazard to human life or creates a public nuisance.

When the Superintendent determines that a user is contributing to the POTW any of the above prohibited substances in such amounts as to interfere with the operation of the POTW, the Superintendent shall: 1) advise the user of the impact of the contribution on the POTW; and 2) assist in developing procedures for such user to correct the interference with the POTW (see Section 8 for enforcement procedures).

## 2.2 Federal Categorical Pretreatment Standards

No person shall discharge or cause to be discharged to any wastewater facilities, wastewaters containing substances subject to an applicable Pretreatment Standard promulgated by EPA, the State of Illinois, or the local POTW in excess of the quantity prescribed in such applicable standard except as otherwise provided in this section. Compliance with such applicable pretreatment standards shall be within 3 years of the date the standard is promulgated; compliance with a categorical pretreatment standard for new sources shall be required upon promulgation.

Upon application by an industrial user, the Superintendent shall adjust any limitation on substances specified in the applicable pretreatment standards to consider factors relating to such user that are fundamentally different from the factors considered by EPA during the development of the pretreatment standard. Requests for and determinations of a fundamentally different adjustment shall be in accordance with Federal law.

The Superintendent shall notify any industrial user affected by the provisions of this section and establish an enforceable compliance schedule for each.

## 2.3 Specific Pollutant Limitations

No user shall discharge wastewater containing more than the maximum amounts of the following listed pollutants:

<u>Pollutant</u>	<u>Concentration</u> <u>(mg/l)</u>
Arsenic	0.5
Barium	11.0
Cadmium	1.2

Chromium	9.0
Copper	3.0
Lead	0.5
Manganese	7.0
Mercury	0.001 daily max 0.0005 monthly ave
Nickel	2.6
Selenium	3.0
Silver	0.4
Total Phenols	2.5
Zinc	5.0

\* Cyanide 0.25

\* Except as otherwise specifically provided, proof of violation of the numerical standards of this pollutant shall be on the basis of one or more of the following averaging rules:

1) No monthly average shall exceed the prescribed numerical standard.

2) No daily composite shall exceed two times the prescribed numerical standard.

3) No grab sample shall exceed five (5) times the prescribed numerical standard.

Terms in this section shall have the following meanings:

1) The monthly average shall be the numerical average of all daily composites taken during a calendar month. A monthly average must be based on at least three (3) daily composites.

2) A daily composite shall be the numerical average of all grab samples, or the result of analysis of a single sample formed by combining all aliquots, taken during a calendar day. A daily composite must be based on at least three (3) grab samples or three (3) aliquots taken at different times.

3) A grab sample is a sample taken at a single time. Aliquots of a daily composite are grab samples only if they are analyzed separately.

#### 2.4 City's Right of Revision

The City reserves the right to establish by ordinance more stringent limitations or requirements on discharges to the wastewater disposal system if deemed necessary to comply with the objectives presented in Section 1.1 of this Ordinance.

#### 2.5 Excessive Discharge